

AD-A113 968 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
193040 MLRS, MISSILE NUMBERS BN=047, V01-015, V01-014, BK-004, --ETC(U)
JAN 82 D C KELLER
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DR 1220
JANUARY 1982

METEOROLOGICAL DATA REPORT
19304D MLRS
Missile Number BN-047, V01-015, V01-014,
BK-004, V01-010 Thru 013
Round Numbers V-205/MD-59 Thru V-211/MD-65
28 Jan 82

by

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Program Support Coordinator
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AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19304D MLRS, Missile No. BN-047, V01-015, V01-014, BK-004, V01-010 Thru 013, Round Numbers V-205/MD-59 Thru V-211/MD-65 presented in tabular form.		

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13. WSD Upper Air Data at 0900 MST -----		18
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INTRODUCTION

19304D MLRS, Missile Numbers BN-047, V01-015, V01-014, BK-004, V01-010, V01-011, V01-012, and V01-013, Round Numbers V-205/MD-59, V-206/MD-60, V-207/MD-61, V-208/MD-62, V-209/MD-63, V-210/MD-64, V-211/MD-65, and V-212/MD-66, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0900:01, 0900:06, 0900:11, 0900:15, 0900:20, 0900:24, 0900:29, and 0900:33 MST, 28 Jan 1982. The scheduled launch times were 0900, 0900:04.5, 0900:09, 0900:13.5, 0900:18, 0900:22.5, 0900:27, and 0900:31.5 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC33 Met Site at T-0 minutes.

(2) Anemometer data were provided form existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained form pilot-balloon observations at:

SITE AND ALTITUDE

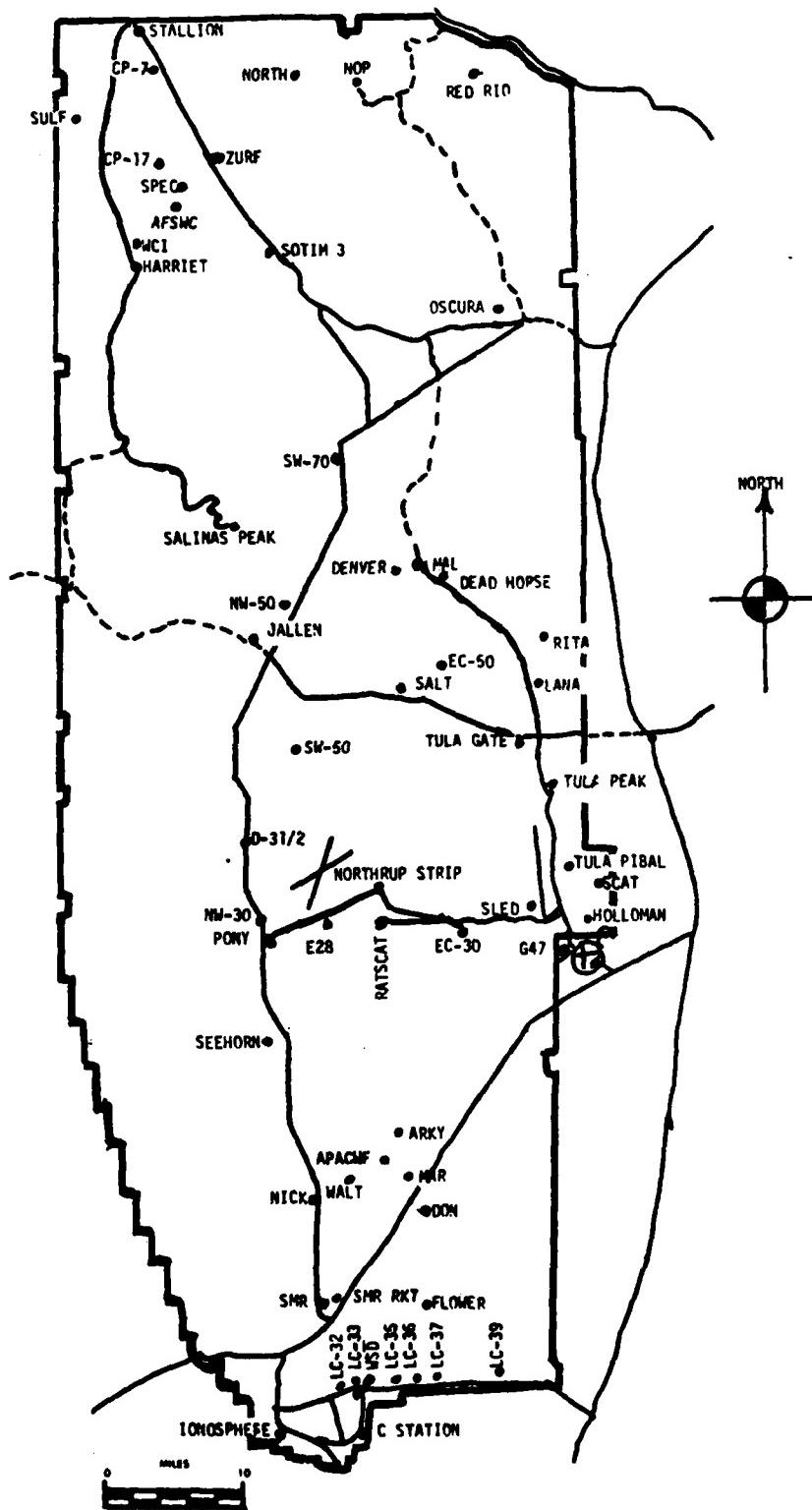
WSD	2 Km
NICK	2 Km

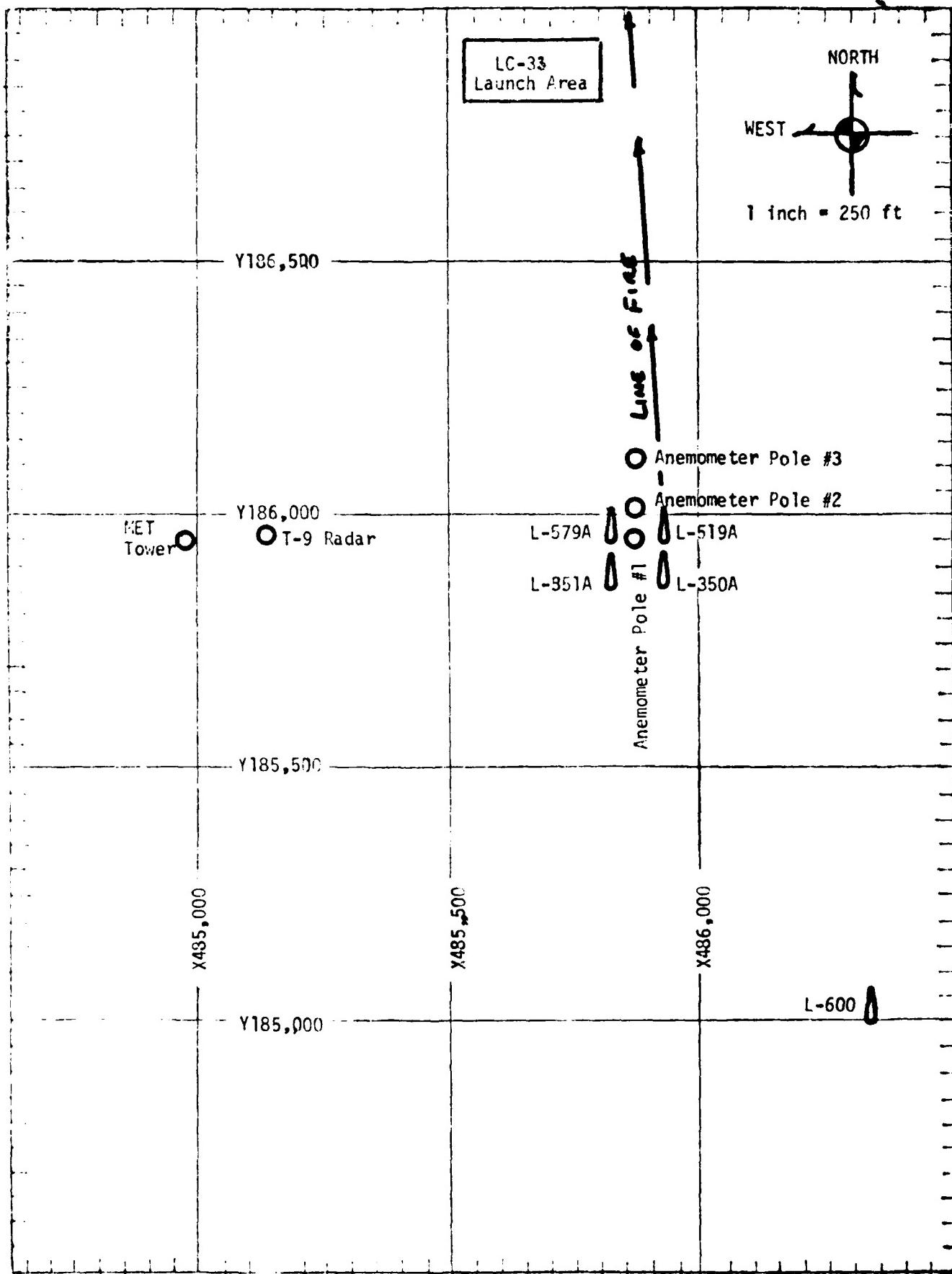
(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

LC 37	0600 MST
WSD	0700 MST
WSD	0900 MST

WSMR METEOROLOGICAL SITES





PROJECT SURFACE USES&ABUSES

TABLE I

$$Y = 485.135.76 \quad Y = 185.919.24 \quad H = 3988.57$$

STATION | f=333 E and A

PSYCHOMETRIC COMPUTATION

TIME: MST	0900				
DRY BULB TEMP.	5.6				
WET BULB TEMP.	2.1				
WET BULB DEPR.	3.5				
DEN POINT	-2.4				
RELATIVE HUMID.	56				

TABLE 2

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG		T-TIME SEC	DIP DEG	SPEED KTS
-30		CALM	-30		CALM	-30		CALM
-20		CALM	-20		CALM	-20		CALM
-10		CALM	-10		CALM	-10		CALM
0.0		CALM	0.0		CALM	0.0		CALM
+10		CALM	+10		CALM	+10		CALM

TABLE 3

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30		CALM	-30	109	01
-20		CALM	-20	109	01
-10		CALM	-10	109	01
0.0		CALM	0.0		CALM
+10		CALM	+10		CALM

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30		CALM	-30		CALM
-20		CALM	-20		CALM
-10		CALM	-10		CALM
0.0		CALM	0.0		CALM
+10		CALM	+10		CALM

TABLE 4

T-TIME PILOT-BALLOON MEASURED WIND DATA
 DATE 28 Jan 1982

SITE: WSD
 TIME: 0900 MST
 WSTM COORDINATES:
 X= 488,580.0
 Y= 185,045.0
 H= 3,989.5

SITE: NICK
 TIME: 0900 MST
 NSTM COORDINATES:
 X= 470,734.56
 Y= 255,775.64
 H= 4,126.57

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SUPFACE		CALM	SUPFACE		CALM
150	169	08	150	163	09
210	164	12	210	166	12
270	170	13	270	170	14
330	168	12	330	173	16
390	179	12	390	175	16
550	169	13	500	175	17
650	179	17	650	172	18
800	172	17	800	175	16
950	180	17	950	195	13
1150	183	13	1150	221	14
1350	190	16	1350	231	18
1550	205	17	1550	231	20
1750	223	21	1750	236	21
2000	229	26	2000	241	23

Data obtained form
 Nike-Herc tracked
 Pilot-balloon observations

Data obtained form
 Single-Theodolite tracked
 Pilot-balloon observations

TABLE 5
AIMING AND T-TIME COMPUTER MET MESSAGES

28 January 1982

LC37 0600 MST	WSD 0700 MST	WSD 0900 MST
METCM1324063	METCM1324064	METCM1324064
281300124881	281400122881	281600122882
00000000 27310881	00213006 27330881	00000000 27770882
01387008 27990870	01292005 28000871	01303007 28100372
02325015 28470844	02333014 28510845	02303013 28480846
03339014 28310805	03313011 28400805	03315016 28400806
04371012 27890757	04357012 28020757	04355016 28110759
05339017 27550712	05411018 27640713	05398024 27750714
06391023 27250669	06419024 27320670	06420025 27400671
07407030 26960629	07427027 27010629	07433031 27180631
08411031 26700590	08446031 26710591	08456036 27040592
09450040 26460553	09450041 26440554	09446040 26710556

STATION ALTITUDE 4051.37 FEET MSL
28 JAN. 82 0600 HRS MST
ASCENSION NO. 1

SIGNIFICANT LEVEL DATA
0280180001

LC-37
TABLE 6

GEODETIC COORDINATES
32°40'17.5" LAT DEG
106°31'23.2" LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT
881.0	4051.4	-6	77.0
865.2	4535.7	9.7	74.1
850.0	5020.1	11.3	74.3
826.0	5805.0	11.4	37.0
749.2	8482.4	4.3	25.0
700.0	10251.2	1.0	19.0
611.2	13792.5	-5.2	24.0
550.6	16468.5	-9.0	20.6
509.2	18440.1	-13.8	19.4
500.0	18894.9	-15.0	20.4
484.8	19660.9	-16.6	18.0
429.4	22622.7	-23.4	18.0
414.4	23474.9	-25.7	25.7
400.0	24316.0	-27.3	22.6
378.2	25636.0	-30.4	22.6
364.0	26530.3	-31.1	20.6
343.8	27852.8	-34.7	19.0
300.0	30929.8	-41.3	44.0

STATION ALTITUDE 4051.57 FEET
28 JAN. 62 0600 hrs. EST
ASCENSION NO. 1

TABLE 7
GEOMETRIC PRESSURE
ALTITUDE MILLIBARS
MSL FEET

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CELSIUS	DELIQUID POINT DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/QUARTIC METRE	SPLIT OF REFLECTION KNOTS	REFRACTIVE INDEX OR DATA
4051.4	881.0	-6	-4.1	77.0	1123.9	643.8	.0
4500.0	860.4	8.9	-3.9	30.9	1067.8	655.0	1.000273
5000.0	850.6	11.2	-7.8	25.5	1040.4	657.5	1.000260
5500.0	835.2	11.4	-10.0	21.3	1021.4	657.5	1.000248
6000.0	820.1	10.9	-11.6	19.4	1004.6	656.9	1.000241
6500.0	805.1	9.6	-12.1	20.3	990.9	656.4	1.000236
7000.0	790.3	8.2	-12.6	21.2	977.4	655.9	1.000232
7500.0	775.9	6.9	-13.2	22.2	964.1	652.3	1.000229
8000.0	761.7	5.6	-13.8	23.1	951.0	650.7	1.000225
8500.0	747.7	4.3	-14.5	23.9	938.0	649.2	1.000222
9000.0	733.8	3.3	-16.2	22.2	923.7	648.1	1.000219
9500.0	720.1	2.4	-17.9	20.5	909.6	646.9	1.000216
10000.0	706.7	1.5	-19.7	18.9	895.8	645.8	1.000210
10500.0	693.4	.6	-21.0	18.0	881.9	644.9	1.000206
11000.0	680.2	-3	-21.7	18.0	868.0	643.7	1.000202
11500.0	667.3	-1.2	-22.4	18.0	854.3	642.6	1.000199
12000.0	654.6	-2.1	-23.1	18.0	840.8	641.6	1.000195
12500.0	642.2	-2.9	-23.9	18.0	827.5	640.6	1.000192
13000.0	630.0	-3.8	-24.6	18.0	814.5	639.5	1.000189
13500.0	618.1	-4.7	-25.3	18.0	801.7	638.5	1.000186
14000.0	606.3	-5.5	-25.9	18.2	788.7	637.5	1.000183
14500.0	594.6	-6.2	-26.3	18.5	775.6	636.7	1.000180
15000.0	583.1	-6.9	-26.6	18.9	762.6	635.8	1.000177
15500.0	571.8	-7.6	-27.0	19.3	749.9	635.0	1.000174
16000.0	560.8	-8.3	-27.4	19.6	737.4	634.1	1.000171
16500.0	549.9	-9.1	-27.6	20.4	725.1	633.2	1.000168
17000.0	539.1	-10.3	-25.5	27.3	714.1	631.8	1.000165
17500.0	528.5	-11.5	-24.1	34.1	703.3	630.3	1.000163
18000.0	518.2	-12.7	-23.2	41.0	692.7	629.1	1.000161
18500.0	508.0	-14.0	-22.3	49.0	682.2	627.4	1.000160
19000.0	497.9	-15.2	-20.5	64.1	671.8	626.0	1.000158
19500.0	486.0	-16.3	-19.8	73.8	661.1	624.7	1.000155
20000.0	476.1	-17.4	-20.6	76.1	650.6	623.3	1.000152
20500.0	468.4	-18.5	-21.9	79.7	640.3	621.9	1.000149
21000.0	458.9	-19.7	-23.2	75.4	630.2	620.5	1.000146
21500.0	449.6	-20.8	-24.5	72.0	620.3	619.1	1.000143
22000.0	440.5	-22.0	-25.8	70.7	610.5	617.0	1.000140
22500.0	431.6	-23.1	-27.1	69.3	600.9	610.2	1.000139
23000.0	422.7	-24.4	-28.0	71.7	591.7	614.0	1.000136
23500.0	414.0	-25.7	-29.7	74.8	582.6	611.1	1.000134

STATION ALTITUDE 4051.37 FEET MSL
28 JAN. 82 0600 HRS MST
ASCENSION NO. 1

OPP. AIR LVL.
0280180001
LC-37

STATION COORDINATES
32.40175 LAT UG
106.31252 LON UG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	SOUND METER KNOTS	WIND DATA		FLUX OR REFRACTION
					INCLINATION (AZIMUTH)	SPEED KNOTS	
24000.0	405.4	-26.7	70.0	572.7	611.7	272.7	53.7
24500.0	396.9	-27.7	67.6	563.1	610.4	274.4	55.7
25000.0	388.6	-28.9	69.1	554.0	609.0	275.7	56.0
25500.0	380.4	-30.1	70.6	545.0	607.5	275.6	61.8
26000.0	372.4	-30.7	58.0	534.8	606.7	275.4	65.0
26500.0	364.5	-31.1	40.1	524.4	606.2	274.6	65.4
27000.0	356.7	-32.4	41.6	516.0	604.6	274.0	65.6
27500.0	349.1	-33.7	42.8	507.9	602.8	273.9	64.7
28000.0	341.6	-35.1	39.2	499.8	601.1	273.6	64.2
28500.0	334.1	-36.5	45.1	491.8	599.5	273.1	64.5
29000.0	326.8	-37.9	46.2	483.8	597.6	272.4	66.3
29500.0	319.6	-39.3	41.7	476.1	595.8	1.000107	
30000.0	312.6	-40.7	48.5	468.5	594.0	1.000105	
30500.0	305.8	-42.1	49.6	461.0	592.2	1.000103	

STATION ALTITUDE 4051.37 FT MSL
28 JAN. 82 0600 HRS MST
ASCENSION NO. 1

MANDATORY LEVEL
0280130001
LC-37
TABLE 8

STUDY II, COORDINATES
32°40'17" LAT DEG
106.31232 LONG DEG

PRESSURE STUPPOTENTIAL MILLIBARS	FEET	DEGREES	TEMPERATURE AIR DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION ELEVATION FORCES (TN)	SPEED KNOTS
850.0	5016.	11.3	-8.0	25.	184.1	6.7
800.0	6673.	9.1	-12.3	21.	187.4	11.9
750.0	8411.	4.5	-14.4	24.	194.7	13.2
700.0	10241.	1.0	-20.6	18.	206.2	19.2
650.0	12183.	-2.4	-23.4	16.	225.6	25.7
600.0	14252.	-5.0	-26.1	16.	237.1	32.1
550.0	16475.	-9.1	-27.6	20.	249.1	39.4
500.0	18668.	-15.0	-20.6	62.	263.5	42.3
450.0	21456.	-20.8	-24.5	72.	265.8	49.4
400.0	24276.	-27.3	-31.5	67.	275.7	54.8
350.0	27391.	-33.6	-42.7	59.	273.9	64.8
300.0	30869.	-43.3	-50.6	44.		

STATION ALTITUDE 3989.00 FT. T.S.L.
28 JAN. 02 0700 HRS. LST
ASCENSION ISL.

31

STATION LATITUDE 39°49.00 N.
028°00'20.31 W.
WHITE SANDS,
NEW MEXICO

GEODETIC COORDINATES
32.40043 LAT LST
106.37033 LONG LST

TABLE 9

PRESSURE IN MILLIBARS	STATION ALTITUDE IN FEET	STATION WIND DIRECTION AND VELOCITY	TEMPERATURE AIR DEPRESSION DEGREES CENTIGRADE	HUMIDITY PERCENT
881.2	3989.0	-0.2	-0.8	61.0
871.3	4290.2	7.2	-3.9	45.0
860.2	4639.3	11.6	-3.3	35.0
850.1	4760.8	11.9	-7.5	25.0
815.6	6100.3	11.4	-9.5	22.0
700.0	10219.2	1.8	-17.1	23.0
636.8	12706.4	-2.3	-24.0	17.0
610.2	13813.5	-5.4	-16.0	43.0
592.8	14559.3	-5.6	-26.2	18.0
524.6	17675.3	-11.2	-29.1	21.0
500.0	12879.6	-14.6	-19.5	67.0
483.6	19707.2	-16.7	-20.7	71.0
475.4	20129.6	-17.2	-22.0	96.0
466.8	20579.2	-18.2	-29.0	36.0
436.0	22243.3	-22.2	-34.0	35.0
428.0	22690.2	-23.4	-30.7	51.0
413.0	23545.9	-25.2	-34.1	43.0
405.8	23965.8	-25.8	-35.9	46.0
400.0	24308.5	-26.6	-31.0	66.0
388.3	25010.7	-29.0	-31.7	77.0
377.0	25706.1	-29.9	-37.0	45.0
362.8	26605.7	-31.3	-39.7	43.0
309.0	30209.7	-41.5		
300.0	30929.3	-42.0		

INITIAL ALTITUDE 34000 FEET
28 JUN. 62 0700 HRS : A
ASUNTION, D.O. 31

WEATHER AT 0000Z
OPPORTUNITY,
WIND SPEED,
WIND DIRECTION,
CLOUDS, CONDENSATE,
52.400045 LAT.
106.37033 LONG.

TABLE 10

GEOPOTENTIAL ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES C., THERM	AIR DENSITY KG./CUBIC METER	REL. HUM. PERCENT	VISIBILITY KM.	WIND DATA DIRECTION DEGREES (00)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION.
3939.0	881.2	-6.8	0.0	1122.9	644.1	120.0	6.0	1.000209
4060.0	880.6	-6.7	0.0	1121.3	644.5	120.0	6.0	1.000209
4500.0	864.6	-5.4	59.0	1062.1	650.0	145.0	7.1	1.000209
5000.0	849.6	-7.5	24.0	1030.0	650.0	162.0	9.1	1.000209
5500.0	832.6	-6.4	23.0	1015.2	635.0	172.0	11.0	1.000209
6000.0	816.6	-9.5	10.0	1000.0	635.0	177.0	13.5	1.000209
6500.0	803.6	-10.5	2.0	985.7	635.0	170.0	12.1	1.000209
7000.0	788.8	-11.2	2.0	971.7	650.0	178.0	10.9	1.000209
7500.0	774.3	-9.1	12.0	957.6	650.0	169.0	10.8	1.000209
8000.0	750.1	-13.0	22.0	944.2	650.0	201.0	11.4	1.000209
8500.0	740.1	-5.8	22.0	930.6	671.0	211.0	13.3	1.000209
9000.0	732.4	4.6	22.0	917.6	690.0	220.0	15.1	1.000209
9500.0	718.9	5.5	16.0	904.5	690.0	228.0	16.9	1.000209
10000.0	705.7	2.3	16.0	891.7	690.0	232.0	19.0	1.000209
10500.0	692.6	1.3	17.0	876.2	645.0	234.0	21.3	1.000209
11000.0	679.5	-5.5	19.0	864.4	644.7	225.0	23.2	1.000209
11500.0	660.7	-20.5	19.0	850.7	665.7	236.0	24.9	1.000209
12000.0	654.1	-10.1	18.0	837.5	646.7	238.0	25.6	1.000209
12500.0	641.8	-20.0	17.0	824.0	641.0	239.0	26.4	1.000209
13000.0	629.6	-3.0	20.0	811.7	640.4	240.0	27.3	1.000209
13500.0	617.6	-4.5	17.0	800.0	630.0	241.0	28.5	1.000209
14000.0	605.0	-5.5	17.0	787.0	637.0	244.0	29.8	1.000209
14500.0	594.2	-5.0	20.0	775.7	637.0	248.0	31.5	1.000209
15000.0	582.6	-6.6	18.0	761.0	636.0	252.0	33.0	1.000209
15500.0	571.3	-7.4	18.0	746.7	635.0	253.0	36.5	1.000209
16000.0	560.2	-6.5	27.0	735.0	634.0	254.0	39.5	1.000209
16500.0	549.4	-9.2	19.0	724.0	635.0	252.0	40.9	1.000209
17000.0	538.7	-10.0	20.0	711.0	636.0	251.0	42.1	1.000209
17500.0	528.2	-10.9	20.0	701.0	631.0	255.0	41.2	1.000209
18000.0	517.9	-12.2	25.0	685.4	629.0	259.0	41.1	1.000209
18500.0	507.6	-15.7	21.0	670.0	627.0	262.0	41.8	1.000209
19000.0	497.6	-15.1	19.0	661.0	628.0	263.0	41.8	1.000209
19500.0	487.7	-16.2	20.0	650.0	629.0	262.0	41.6	1.000209
20000.0	477.9	-17.0	21.0	640.0	631.0	260.0	41.5	1.000209
20500.0	466.3	-16.0	27.0	625.0	629.0	261.0	41.1	1.000209
21000.0	456.0	-19.2	20.0	610.0	627.0	260.0	40.8	1.000209
21500.0	449.5	-20.4	21.0	600.0	619.0	262.0	40.6	1.000209
22000.0	440.4	-21.0	20.0	588.7	616.0	265.0	40.9	1.000209
22500.0	431.4	-22.0	21.0	578.0	616.0	263.0	40.0	1.000209
23000.0	422.5	-24.1	21.0	560.0	615.0	261.0	40.6	1.000209

STATION ALITUDE 3989.60 FEET
29 JAN. 62 0700 HRS LOCAL
ASCENSION I.O. 31

卷之三

STOOL II. CONSTITUENTS
52.4045 LAT. 56°
106.37013 LON. 56°

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SATION ALTITUDE 3989.00 FEET, SL
28 JAN. 02 0700 HRS
ASCENSION NO. 31

INSTRUMENT LL, LS
0210020051
WHT SANDS
TABLE 11

GEODETIC COORDINATES
32° 00' 04" LAT DEG
106° 37' 03" LON DEG

MILLIBARS	FEET	PRESSURE GEOPOTENTIAL	TEMPERATURE AIR DEGREES C.	WIND HUM. PERCENT	WIND DATA	
					WIND DIRECTION DEGREES, CENTIGRADE	WIND SPEED KNOTS
850.0	4363.	11.9	-7.5	25*	161.3	8.9
800.0	6623.	10.2	-10.5	22*	176.5	11.7
750.0	8570.	9.1	-13.7	25*	209.5	12.8
700.0	10209.	1.8	-17.1	25*	235.5	20.0
650.0	12157.	-1.4	-22.4	16*	259.2	25.8
600.0	14231.	-5.6	-21.0	28*	245.9	30.6
550.0	16456.	-9.1	-28.0	20*	252.4	40.8
500.0	18853.	-14.9	-19.5	67*	263.2	41.6
450.0	21443.	-20.3	-31.7	35*	262.6	40.6
400.0	24268.	-26.6	-31.0	66*	274.2	52.5
350.0	27390.	-33.6	-44.1	35.**	273.5	61.3
300.0	30868.	-42.0				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET
26 JAN. 1928
ASCENSION I.O.

TABLE 12
CLOUD HEIGHTS
6200-6600 FEET
STATION

STATION LATITUDE
32°40'43" LAT.
106°37'05" LONG. U.S.G.

PRESSURE MILLIBARS	DEGREE OF INCLINATION TO THE HORIZONTAL	TEMPERATURE AIR DEWPOINT DEGREES CELSIUS	RHUMA- PERCENT
832.2	5959.0	3.1	55.0
665.0	4616.9	0.1	75.4
655.4	4225.5	11.2	71.1
850.6	4297.1	11.5	27.0
790.4	6859.9	10.0	55.0
745.5	8711.9	6.4	53.0
760.0	10257.3	2.7	53.0
655.6	11089.2	7.8	54.0
604.2	14124.5	-2.4	19.7
587.4	14659.4	-3.0	-20.2
539.4	17058.4	-7.9	-24.0
500.0	16977.8	-13.3	-21.3
491.6	19401.7	-13.9	-20.0
436.0	22357.9	-21.3	-25.0
416.4	23970.1	-23.3	-22.0
400.0	24433.9	-25.4	-20.0
395.0	24734.2	-25.7	-21.0
381.0	25592.0	-27.6	-25.0
347.2	27764.3	-32.4	-36.9
331.4	23840.4	-36.0	-40.5
314.4	34038.1	-51.6	-43.5
300.0	31095.8	-40.7	-39.0
290.2	31855.5	-42.5	-32.0
278.4	32753.9	-44.0	-36.0
272.0	34564.2	-46.5	-36.0
255.0	34674.2	-46.4	-36.0
250.0	35116.2	-48.4	-36.0
246.3	35940.6	-45.0	-36.0
225.6	37395.2	-46.4	-36.0
200.0	39993.3	-41.8	-36.0
171.7	43226.2	-51.2	-36.0
155.2	45154.0	-50.2	-36.0
150.0	46035.3	-50.0	-36.0
138.8	47630.9	-61.7	-36.0
123.2	50038.6	-66.5	-36.0
117.6	51039.9	-66.6	-36.0
100.0	54201.3	-68.4	-36.0
79.8	54605.5	-69.5	-36.0
70.0	61266.7	-65.0	-36.0
57.6	63164.8	-46.5	-36.0

STATION NUMBER 34900 FFt 1 SC
28 JAN. 1920 0900 hrs m.s.
ASCENSION ISL. 10.

SIGHTING ALTITUDE DATA
10000±0.5°
WITH SKIN

STATION COORDINATES
32°40'43" LAT LG
106°37'33" LONG LG

PRESSURE MILLIBARS	GRADIENT AT 1 FT DE 10°C FELT	TEMPERATURE ALP DEPTHS 0.6 FEET C. M. THERM.	REL. HUM PREGRAF
50.0	0.040.9	-5.0+4	
37.0	7.5037.1	-5.0+5	
32.0	7.6025.8	-5.1+0	
30.0	7.8745.9	-5.1+0	
25.6	8.2170.5	-4.9+6	
23.2	8.6315.2	-4.7+1	
20.0	8.7551.5	-4.0+3	
15.6	9.2717.1	-4.6+1	
13.2	9.6709.2	-4.3+5	
10.0	10.2021.1	-4.1+0	
8.9	10.5559.0	-3.9+2	

STATION: 321101C 394900 E 41
28 JUN 02 0900 HRS EAT
ACQUISITION: 32

TABLE 13

TABLE I3

GEOMETRIC PRESSURE AT ALTITUDE IN FEET	MILLIGARS	DEGREES CELSIUS	TEMPERATURE		WIND VELOCITY		DIRECTION		WIND DATA		KNOTS	REFRACTIG.
			AIR TEMPERATURE	WIND SPEED	PERCENT HUMIDITY	AT TIP	SOULDAY PERIODS	WIND VELOCITY	WIND VELOCITY	SPLFD		
3989.0	882.2	3.1	-5.5	53.0	1110.6	640.1	• 0	• 0	• 0	• 0	1.0001208	
4000.0	881.6	3.2	-5.5	52.6	1108.6	640.2	173.0	173.0	173.0	173.0	1.0001207	
4500.0	862.0	8.9	-3.5	41.4	1067.0	604.9	175.0	175.0	175.0	175.0	1.0001200	
5000.0	849.9	11.3	-3.0	35.0	1036.7	607.7	173.0	173.0	173.0	173.0	1.0001205	
5500.0	834.5	11.0	-4.1	30.5	1021.1	657.3	173.0	173.0	173.0	173.0	1.0001249	
6000.0	819.4	10.6	-4.6	34.0	1003.6	657.0	174.9	174.9	174.9	174.9	1.0001244	
6500.0	804.6	10.3	-5.0	33.5	980.6	660.0	163.6	163.6	163.6	163.6	1.0001240	
7000.0	790.0	10.0	-5.5	33.0	970.2	650.1	164.1	164.1	164.1	164.1	1.0001235	
7500.0	775.6	6.8	-6.5	33.0	950.4	654.8	191.7	191.7	191.7	191.7	1.0001231	
8000.0	761.4	7.7	-7.5	33.6	942.0	653.4	193.1	193.1	193.1	193.1	1.0001227	
8500.0	747.5	6.6	-8.1	33.0	929.4	652.1	205.5	205.5	205.5	205.5	1.0001223	
9000.0	733.7	5.5	-9.4	35.2	915.9	650.6	214.5	214.5	214.5	214.5	1.0001219	
9500.0	720.1	4.4	-10.3	33.6	902.6	649.5	221.4	221.4	221.4	221.4	1.0001215	
10000.0	706.8	3.3	-11.1	33.8	889.3	640.2	227.7	227.7	227.7	227.7	1.0001211	
10500.0	693.6	2.2	-12.1	33.7	870.3	640.9	232.1	232.1	232.1	232.1	1.0001207	
11000.0	680.6	1.2	-13.2	33.1	863.2	645.7	244.4	244.4	244.4	244.4	1.0001203	
11500.0	667.8	0.2	-14.3	32.6	850.2	644.5	255.9	255.9	255.9	255.9	1.0001200	
12000.0	655.0	-0.8	-15.4	32.0	837.3	642.5	257.1	257.1	257.1	257.1	1.0001196	
12500.0	642.9	-1.2	-16.4	30.3	822.7	642.8	240.7	240.7	240.7	240.7	1.0001192	
13000.0	630.7	-1.6	-17.4	28.7	803.3	641.3	244.4	244.4	244.4	244.4	1.0001188	
13500.0	618.8	-1.9	-18.4	27.0	784.1	641.9	248.4	248.4	248.4	248.4	1.0001184	
14000.0	607.1	-2.3	-19.4	25.4	760.2	641.4	251.5	251.5	251.5	251.5	1.0001180	
14500.0	595.6	-2.7	-20.0	25.0	736.5	640.9	255.0	255.0	255.0	255.0	1.0001177	
15000.0	584.2	-3.3	-26.4	25.1	755.6	640.2	254.0	254.0	254.0	254.0	1.0001174	
15500.0	573.0	-4.4	-21.3	25.3	742.5	636.9	253.0	253.0	253.0	253.0	1.0001171	
16000.0	562.0	-5.5	-22.0	25.5	731.1	637.5	251.9	251.9	251.9	251.9	1.0001168	
16500.0	551.2	-6.7	-23.0	25.7	720.1	638.2	250.9	250.9	250.9	250.9	1.0001164	
17000.0	540.6	-7.8	-23.9	26.0	709.2	634.0	250.4	250.4	250.4	250.4	1.0001163	
17500.0	530.1	-9.1	-22.8	31.8	689.0	635.2	250.5	250.5	250.5	250.5	1.0001161	
18000.0	519.7	-10.5	-22.0	30.2	686.9	631.0	249.0	249.0	249.0	249.0	1.0001159	
18500.0	509.5	-12.6	-21.5	44.6	679.0	629.9	477.0	477.0	477.0	477.0	1.0001157	
19000.0	499.6	-13.3	-21.5	50.1	669.3	620.2	460.7	460.7	460.7	460.7	1.0001153	
19500.0	489.6	-14.1	-26.9	33.1	655.8	627.1	247.5	247.5	247.5	247.5	1.0001150	
20000.0	479.8	-15.4	-27.8	33.6	646.2	625.0	460.0	460.0	460.0	460.0	1.0001148	
20500.0	470.2	-16.6	-28.7	50.1	630.3	624.1	251.1	251.1	251.1	251.1	1.0001145	
21000.0	460.7	-17.9	-29.7	50.6	620.5	622.5	465.5	465.5	465.5	465.5	1.0001143	
21500.0	451.5	-19.2	-30.7	35.1	616.9	621.0	41.2	41.2	41.2	41.2	1.0001141	
22000.0	442.4	-20.4	-31.0	35.6	609.5	619.5	42.0	42.0	42.0	42.0	1.0001138	
22500.0	433.4	-21.6	-32.1	36.3	600.0	616.0	42.5	42.5	42.5	42.5	1.0001136	
23000.0	424.6	-22.5	-33.1	37.2	589.8	619.9	47.6	47.6	47.6	47.6	1.0001134	

STATION ALTITUDE 3489.00 FEET
26 JAN. 62 0900 HRS. 21
ASULATION: .0. 32

MAX. WIND
SPEED: 10.5
WIND DIRECTION:
110 DEGREES

STATION LATITUDE
32°48'43" LAT.
LONGITUDE
196°37'53" LONG.

STATION ALTITUDE ASL FEET	PRESSURE IN MILLIBARS	TEMPERATURE IN DEGREES CELSIUS	WIND DIRECTION IN DEGREES	WIND VELOCITY IN METERS PER SECOND	WIND VELOCITY IN FEET PER SECOND	WIND VELOCITY IN KNOTS	INDEX OF REFRACTION
25500.0	415.9	-23.4	15.4	2.0	6.7	0.4	1.000161
24000.0	407.3	-24.5	16.0	2.6	8.7	0.5	1.000150
24500.0	398.9	-25.5	17.5	3.0	10.0	0.5	1.000128
23000.0	390.6	-26.3	19.4	3.5	12.0	0.5	1.000149
25500.0	582.5	-27.5	31.4	5.2	16.5	1.0	1.000123
26000.0	374.4	-28.5	32.0	6.4	17.0	1.0	1.000112
26500.0	365.5	-29.6	34.1	6.5	17.5	1.0	1.000111
27000.0	356.8	-31.0	35.2	6.6	18.0	1.0	1.000119
27500.0	351.2	-32.2	36.3	6.8	18.5	1.0	1.000117
26000.0	345.7	-33.6	37.7	6.1	19.0	1.0	1.000115
26500.0	336.3	-35.0	39.3	6.3	19.7	1.0	1.000113
29000.0	329.1	-36.3	40.8	6.7	20.7	1.0	1.000111
29500.0	321.9	-37.4	42.0	6.9	21.9	1.0	1.000109
31000.0	314.9	-38.5	43.2	6.1	20.5	1.0	1.000107
30500.0	308.0	-39.5	43.2	6.8	20.8	1.0	1.000105
31000.0	301.3	-40.5	44.2	6.4	20.1	1.0	1.000103
31500.0	294.6	-41.7	44.8	6.0	19.6	1.0	1.000102
32000.0	288.0	-42.9	45.8	5.7	19.2	1.0	1.000101
32500.0	281.6	-44.3	46.8	5.5	19.0	1.0	1.000100
33000.0	275.3	-45.6	47.5	5.3	18.8	1.0	1.000099
33500.0	269.1	-46.2	48.1	5.0	18.5	1.0	1.000098
34000.0	263.0	-45.8	48.7	4.8	18.2	1.0	1.000097
34500.0	257.1	-45.5	49.4	4.6	18.0	1.0	1.000096
35000.0	251.3	-43.9	50.2	4.0	17.8	1.0	1.000095
35500.0	245.7	-43.6	50.9	3.6	17.6	1.0	1.000094
36000.0	240.2	-44.1	51.6	3.2	17.3	1.0	1.000093
36500.0	234.8	-44.6	52.2	2.8	17.0	1.0	1.000092
37000.0	229.6	-45.0	52.8	2.4	16.7	1.0	1.000091
37500.0	224.4	-45.7	53.4	2.0	16.4	1.0	1.000090
38000.0	219.3	-46.9	54.0	1.6	16.1	1.0	1.000089
38500.0	214.3	-48.1	54.6	1.2	15.8	1.0	1.000088
39000.0	209.4	-49.4	55.0	0.8	15.5	1.0	1.000087
39500.0	204.6	-50.6	55.4	0.4	15.2	1.0	1.000086
40000.0	199.9	-51.8	55.8	0.0	15.0	1.0	1.000085
40500.0	195.3	-52.3	56.3	-0.4	14.7	1.0	1.000084
41000.0	190.7	-52.9	56.8	-0.8	14.4	1.0	1.000083
41500.0	186.3	-53.4	57.3	-1.2	14.1	1.0	1.000082
42000.0	181.9	-53.0	57.8	-1.6	13.8	1.0	1.000081
42500.0	177.7	-54.4	58.3	-2.0	13.5	1.0	1.000080
43000.0	173.6	-55.0	58.8	-2.4	13.2	1.0	1.000079

STL 100, ALUMINUM 3600.00 FT 1-34
26 JAN. '12 0900 hrs. 32
ASSEMBLY. .0. 32

卷之三

GLOBALISATION

GEOMETRIC HEIGHT	PRESSURE ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	SPEED OF WIND MILES PER HOUR	WIND DATA SHEETS INCHES	WIND SPEED MILES PER HOUR	WIND DIRECTION OR RELATION
43500.0	169.5	-55.7	271.5	274.5	27.0	78.5	1.0000000
44000.0	165.5	-56.7	266.5	275.2	26.7	77.5	1.0000059
44500.0	161.5	-57.6	261.1	271.9	25.9	75.0	1.0000058
45000.0	157.7	-58.6	256.0	270.7	25.4	70.8	1.0000057
45500.0	154.9	-59.3	250.8	269.7	25.5	65.1	1.0000056
46000.0	150.3	-59.6	245.1	269.3	25.4	61.5	1.0000055
46500.0	146.7	-60.2	239.9	268.5	25.1	59.9	1.0000053
47000.0	143.1	-60.9	234.9	267.6	25.1	59.2	1.0000052
47500.0	139.7	-61.5	229.9	266.7	25.0	59.6	1.0000051
48000.0	136.3	-62.4	225.3	265.5	25.0	59.2	1.0000050
48500.0	133.0	-63.4	220.8	264.2	25.0	57.4	1.0000049
49000.0	129.7	-64.4	216.5	262.8	25.0	55.7	1.0000048
49500.0	126.5	-65.4	212.2	261.5	25.1	54.2	1.0000047
50000.0	123.4	-66.4	208.0	260.1	25.1	52.9	1.0000046
50500.0	120.4	-65.6	202.1	261.2	25.1	52.7	1.0000045
51000.0	117.4	-64.7	196.4	262.5	25.1	52.5	1.0000044
51500.0	114.5	-65.2	191.8	261.9	25.1	52.9	1.0000043
52000.0	111.7	-65.3	187.6	261.0	25.1	53.6	1.0000042
52500.0	108.9	-66.4	183.5	260.2	25.2	54.5	1.0000041
53000.0	106.2	-67.0	179.5	259.4	25.5	55.6	1.0000040
53500.0	103.6	-67.5	175.6	258.6	25.5	56.3	1.0000039
54000.0	101.1	-68.1	171.7	257.8	25.4	55.7	1.0000038
54500.0	98.5	-68.5	167.7	257.4	25.5	55.2	1.0000037
55000.0	96.1	-68.6	163.9	257.2	25.5	55.7	1.0000036
55500.0	93.7	-68.7	159.6	257.0	25.7	56.2	1.0000035
56000.0	91.3	-68.8	155.7	256.9	25.7	56.8	1.0000034
56500.0	89.0	-69.0	151.9	256.7	25.7	57.4	1.0000034
57000.0	86.8	-69.1	146.2	256.5	25.7	53.0	1.0000033
57500.0	84.6	-69.2	144.0	256.3	25.7	44.5	1.0000032
58000.0	82.5	-69.3	141.1	256.2	25.7	35.2	1.0000031
58500.0	80.3	-69.5	137.0	256.0	25.7	25.0	1.0000030
59000.0	78.5	-69.6	133.9	256.0	25.7	14.8	1.0000029
59500.0	76.5	-69.7	130.1	257.5	25.7	15.8	1.0000029
60000.0	74.6	-69.8	126.5	256.5	25.7	17.2	1.0000028
60500.0	72.5	-69.9	122.9	255.4	25.7	21.0	1.0300027
61000.0	70.5	-70.0	119.5	255.3	25.7	26.3	1.0000027
61500.0	69.2	-70.0	116.3	255.0	25.6	31.1	1.0000026
62000.0	67.5	-69.9	113.5	254.7	25.6	34.4	1.0000025
62500.0	65.8	-69.9	110.7	250.6	25.6	37.6	1.0000025
63000.0	64.2	-69.9	108.0	250.3	25.6	40.7	1.0000024

STATION ALTITUDE 3989.00 FEET
28 JAN. 62
AIRCRAFT 1.0.

ALTITUDE
FEET
MILLIARS

COORDINATES
52.00043 LAT.
106.37033 LONG.

GEODIAL THERM	PRESSURE	TEMPERATURE	REL. HUMID.	WIND DIRECTION	WIND SPEED KNOTS	WIND DATA REFLECTED	INSTANT	INSTANT REFLECTION
64000.0	620.6	-66.2	105.4	300.4	422.6	43.9	1.000023	45.2
64500.0	61.1	-68.3	162.9	500.5	202.5	45.2	1.000023	45.2
65000.0	59.6	-66.4	100.4	300.2	202.3	44.8	1.000022	44.8
65500.0	58.1	-66.5	07.9	300.1	202.0	43.6	1.000022	43.6
66000.0	56.7	-65.8	05.2	301.0	201.5	37.1	1.000021	37.1
66500.0	55.3	-64.7	02.4	302.4	200.7	30.7	1.000021	30.7
67000.0	55.9	-63.7	69.7	503.3	200.7	24.4	1.000020	24.4
67500.0	52.6	-62.6	87.1	505.3	200.0	18.2	1.000019	18.2
68000.0	51.4	-61.5	84.5	306.7	200.1	13.7	1.000019	13.7
68500.0	50.1	-60.5	82.1	306.1	202.2	12.8	1.000018	12.8
69000.0	49.9	-60.3	80.0	306.4	200.7	11.8	1.000018	11.8
69500.0	47.7	-60.1	78.0	306.7	200.5	11.9	1.000017	11.9
70000.0	46.6	-59.9	76.1	306.9	200.5	12.1	1.000017	12.1
70500.0	45.5	-59.8	74.3	309.1	201.9	11.8	1.000017	11.8
71000.0	44.4	-59.6	72.4	309.3	203.7	11.0	1.000016	11.0
71500.0	42.3	-59.3	70.6	309.5	202.7	10.3	1.000016	10.3
72000.0	41.3	-59.1	68.9	309.7	200.1	10.4	1.000015	10.4
72500.0	40.3	-59.0	67.4	309.9	200.0	10.6	1.000015	10.6
73000.0	39.3	-58.8	65.6	370.4	200.6	11.1	1.000015	11.1
73500.0	38.4	-58.6	63.9	370.4	207.0	11.9	1.000014	11.9
74000.0	37.5	-58.3	62.4	370.9	207.1	12.7	1.000014	12.7
74500.0	36.6	-57.0	60.8	371.0	205.9	13.3	1.000014	13.3
75000.0	35.8	-55.7	59.0	372.7	204.7	13.8	1.000013	13.8
75500.0	34.9	-54.4	57.3	374.4	203.4	14.3	1.000013	14.3
76000.0	34.1	-53.1	55.6	376.1	201.6	14.6	1.000012	14.6
76500.0	33.3	-51.8	54.0	377.0	200.6	14.9	1.000012	14.9
77000.0	32.5	-51.5	52.4	379.5	200.4	15.8	1.000012	15.8
77500.0	31.8	-51.2	51.0	380.7	200.2	17.2	1.000011	17.2
78000.0	31.0	-51.0	49.6	380.7	200.2	18.6	1.000011	18.6
78500.0	31.1	-51.0	48.7	380.7	201.5	22.3	1.000011	22.3
79000.0	30.3	-51.0	47.6	380.7	201.1	26.4	1.000011	26.4
79500.0	29.6	-50.9	46.5	380.6	202.0	30.5	1.000010	30.5
80000.0	29.0	-50.7	45.4	381.1	202.5	30.9	1.000010	30.9
80500.0	28.3	-50.5	44.3	381.3	201.9	31.5	1.000010	31.5
81000.0	27.7	-50.3	43.2	381.9	201.1	30.2	1.000010	30.2
81500.0	27.0	-50.1	42.2	381.9	200.9	24.9	1.000010	24.9
82000.0	26.4	-49.9	41.2	382.3	200.9	18.6	1.000010	18.6
82500.0	25.8	-49.7	40.2	382.7	200.6	14.3	1.000010	14.3
83000.0	25.2	-49.5	39.2	383.1	200.3	10.8	1.000010	10.8
83500.0	24.6	-49.3	38.2	383.4	200.1	7.7	1.000010	7.7

CONDITIONS OF TEST
AT 20°C.
MATERIALS
ACCUMULATED.

TEST NUMBER
52
TEST DATE
1960 APRIL 11

TEST CONDITIONS
32°C. 30°C. 28°C.
32°C. 30°C. 28°C.
106°C. 97°C. 85°C.

TEST NUMBER	PRESSURE	TEST CONDITIONS	TEST TEMPERATURE	TEST HUMIDITY	TEST DENSITY	TEST DURATIONS	TEST FREQUENCY
63000.0	24.1	-4.0.1	17.3	50.4.3	21.4.2	5.9	1.000000
64000.0	25.5	-4.7.5	30.3	56.5.3	102.4	5.1	1.000000
64500.0	25.0	-4.7.2	30.3	56.5.0	157.3	5.2	1.000000
65000.0	22.5	-6.7.0	34.7	59.5.1	124.6	6.6	1.000000
65500.0	22.0	-6.7.9	34.0	59.4.7	107.0	9.6	1.000000
66000.0	21.5	-6.8.2	35.3	59.9.2	97.0	12.4	1.000000
66500.0	21.0	-6.8.6	35.0	59.5.8	91.1	13.7	1.000000
67000.0	20.5	-6.8.9	31.9	59.5.4	85.5	15.1	1.000000
67500.0	20.0	-6.9.3	31.2	59.2.9	60.0	15.4	1.000000
68000.0	19.6	-6.9.9	30.4	58.5.5	75.0	14.4	1.000000
68500.0	19.2	-6.8.5	29.7	58.5.9	39.0	13.4	1.000000
69000.0	18.7	-6.8.1	29.0	58.4.4	65.1	13.2	1.000000
69500.0	18.3	-6.7.7	26.3	56.6.9	61.6	13.6	1.000000
70000.0	17.9	-6.7.3	27.0	56.5.3	55.0	13.6	1.000000
70500.0	17.5	-6.6.9	26.9	56.6.0	60.7	15.4	1.000000
71000.0	17.1	-6.6.5	26.3	56.5.5	55.0	17.4	1.000000
71500.0	16.7	-6.6.1	25.6	56.7.0	64.0	19.3	1.000000
72000.0	16.3	-6.5.7	22.0	56.7.0	55.9	16.2	1.000000
72500.0	16.0	-6.5.3	24.4	56.6.1	67.1	17.1	1.000000
73000.0	15.6	-6.5.0	25.0	56.5.3	55.9	15.9	1.000000
73500.0	15.3	-6.4.8	25.3	56.6.7	72.9	14.1	1.000000
74000.0	14.9	-6.4.6	25.7	56.9.9	78.0	12.3	1.000000
74500.0	14.6	-6.4.4	22.4	56.9.6	64.7	10.7	1.000000
75000.0	14.3	-6.4.2	21.7	56.5.5	95.0	9.2	1.000000
75500.0	13.9	-6.4.0	21.2	56.6.6	111.4	8.3	1.000000
76000.0	13.6	-6.3.8	20.7	56.6.0	129.0	8.1	1.000000
76500.0	13.3	-6.3.6	20.4	56.6.3	148.0	6.7	1.000000
77000.0	13.0	-6.3.4	19.5	56.6.5	110.0	5.5	1.000000
77500.0	12.7	-6.3.2	19.3	56.6.7	60.4	6.1	1.000000
78000.0	12.4	-6.3.0	16.9	57.0.0	55.0	10.2	1.000000
78500.0	12.2	-6.2.8	16.4	57.1.0	60.0	13.4	1.000000
79000.0	11.9	-6.2.6	16.0	56.9.2	42.0	10.3	1.000000
79500.0	11.7	-6.2.4	16.0	56.1.2	72.0	9.2	1.000000
80000.0	11.4	-6.2.2	16.2	56.1.2	98.0	10.1	1.000000
80500.0	11.1	-6.2.0	16.8	59.1.7	129.3	11.9	1.000000
81000.0	11.2	-6.1.9	16.4	56.1.9	124.5	16.2	1.000000
81500.0	10.7	-6.2.2	16.1	56.2.1	107.4	22.8	1.000000
82000.0	10.4	-6.2.1	15.7	56.2.2	174.5	29.8	1.000000
82500.0	10.2	-6.1.9	15.4	56.2.4	15.0	30.7	1.000000
83000.0	10.1	-6.1.7	15.0	56.2.7	10.0	30.0	1.000000

STATION NUMBER 3489.00 FEET
26 JAN. 62 DEGEN HRS 10.21
ASCENSION ISL.

WIND N. E. 16
H. 100.0000,
W.H.P. 5640.0,
ASCEN. NO. 32

GEODETIC PRESSURE	TEMPERATURE	SLANT DISTANCE MILLIARS	REFRACT. INDEX	SLANT DISTANCE MILLIARS	REFRACT. INDEX	SLANT DISTANCE MILLIARS	REFRACT. INDEX	WIND DATA	WIND (or REFRACT.)
ALTITUDE FEET	ATMOSPHERE TEMPERATURE DEGREES CELSIUS	RHO	RHO						
10500.0	9.7	-61.2	14.6	39.5	1.000005	10400.0	-40.7	14.2	39.9
10400.0	9.5	-40.7	15.9	394.5	1.000005	104500.0	9.3	13.6	39.5
104500.0	9.1	-39.7	15.3	39.5	1.000005	105000.0	9.0	39.5	39.5
105000.0	8.9	-39.3							

STATION NUMBER 3989.00 FEET
28 JAN. 12 0900 HRS G.O.
ASCENSION .0.

ANALYSIS OF
OCEANIC WINDS
WITH ZONE
TABLE 14

AT OCEANIC CONDENSATION
32.0005 LAT 5°
106.2733 LONG E

PRESSURE (DECOMPRESSION)	RELATIVE	TRANSIENT	WIND DIRECTION	WIND VELOCITY	WIND DIRECTION	WIND VELOCITY
MILLIBARS	FEET	TEMPERATURE	ATMOSPHERIC PRESSURE	TEMPERATURE	ATMOSPHERIC PRESSURE	TEMPERATURE
850.0	4995.	11.3	-3.0	3.0	173.0	6.9
800.0	6541.	10.2	-5.4	5.4	179.9	10.2
750.0	6462.	10.8	-6.5	6.5	204.5	10.5
700.0	10247.	7.7	-11.0	11.0	230.5	24.6
650.0	12200.	-1.0	-15.0	15.0	250.4	27.7
600.0	14200.	-2.5	-19.0	19.0	252.0	30.3
550.0	16349.	-3.0	-25.1	25.1	250.0	39.7
500.0	18051.	-15.3	-21.5	21.5	240.7	41.2
450.0	21565.	-19.4	-30.3	30.3	250.1	47.4
400.0	24393.	-25.0	-29.4	29.4	260.1	54.8
350.0	27352.	-3.6	-36.5	36.5	275.0	63.5
300.0	31032.	-9.0	-7	-7	274.9	68.4
250.0	35060.	-4.6	-4.6	-4.6	264.2	66.7
200.0	39907.	-51.0	-51.0	-51.0	257.0	66.6
175.0	42718.	-54.0	-54.0	-54.0	250.9	77.5
150.0	45914.	-50.6	-50.6	-50.6	252.4	61.5
125.0	49605.	-65.0	-65.0	-65.0	251.1	55.6
100.0	54042.	-68.0	-68.0	-68.0	255.0	55.5
80.0	58421.	-69.5	-69.5	-69.5	257.0	22.3
70.0	61057.	-65.0	-65.0	-65.0	257.0	22.8
60.0	64123.	-66.4	-66.4	-66.4	262.4	45.0
50.0	67706.	-60.4	-60.4	-60.4	252.1	14.7
40.0	72364.	-53.0	-53.0	-53.0	250.9	11.3
30.0	78410.	-51.0	-51.0	-51.0	252.2	20.1
20.0	82317.	-49.0	-49.0	-49.0	251.1	5.9
15.0	87142.	-49.5	-49.5	-49.5	260.7	15.4
10.0	93460.	-46.6	-46.6	-46.6	70.0	12.9
10.0	102364.	-41.6	-41.6	-41.6		

* * At LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE AND USE IN INTERPOLATION.

**DATE
TIME**